RAW SEQUENCE LISTING   DATE: 09/13/2004
PATENT APPLICATION: **US/10/612,783A**   TIME: 10:19:12

Input Set : **D:\pa_00591.rpt**
Output Set: **N:\CRF4\09132004\J612783A.raw**

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  1  <110> APPLICANT: La Rosa, Thomas J.
  2         Kovalic, David K.
  3         Zhou, Yihua
  4         Cao, Yongwei
  6  <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
  7         Plants
  9  <130> FILE REFERENCE: 38-21(53373)A
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/612,783A
C--> 11 <141> CURRENT FILING DATE: 2003-07-02
 11  <160> NUMBER OF SEQ ID NOS: 7098
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 14  <211> LENGTH: 442
 15  <212> TYPE: DNA
 16  <213> ORGANISM: Glycine max
 18  <220> FEATURE:
 19  <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_100307C.1
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 27  gtcccttggg tttcagaacg ttcaaagaga aagttccaag tctaagaaca agcacttctc   180
 29  cttgttgctt gctgacacag ttatcataaa caaagataaa actgaagttg tgacctctat   240
 31  gagctcaaag gctctaaaag atgttgcata ttctttcaat gaggatgagg aagaggaaaa   300
 33  tcccagggct aaagctgaca ccaatggtgc tgagcccttg atgtctaaga caactctaag   360
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 37  tcgtcagaaa aatgaagaaa ct                                            442
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 41  <211> LENGTH: 1620
 42  <212> TYPE: DNA
 43  <213> ORGANISM: Glycine max
 45  <220> FEATURE:
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 52  tttggccaca cggaaagatc aggctttgct ttgctttgtg tgagatctga agaagagagg   120
 54  tatggcaaaa agggtcttct tgtacaagga tttggttcct tttggggcca tggtgaccat   180
 56  ggaatgcctc aacgtagcct tgaatactct gttcaaagca gctaccttga gagggatgag   240
 58  ttaccatgtc tttgttgttt atgcttatgc tgttgctgct attgttctca ttcctggacc   300
 60  ctttatctcc caaaggtgca gatcaagagt gcttcctccg ctcagtttcc ccctactacg   360
 62  caaaattggt cttctcgggc taatagggtg tgcttctcag atcgtgggat acacaggcat   420
 64  cagtttcagt tcccccactc tctcctcggc gataagcaac ttggtgcccg cttttacttt   480
 66  tttgcttgcc atcattttca ggatggaaaa ggtgattgta agaaatacaa cttgtcaagc   540
 68  caaggtattg ggtaccatag tatcaataac tggagcattc gtagtgacct tctacaaagg   600
 70  accaccaatc atcattgttc atacaccttc cttgtcactt catcaaccaa ttaacactct   660
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Input Set : **D:\pa_00591.rpt**
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 72 gaattcggta gatcgaagtt gggcaattgg tggccttcta ctgacagcag agtatattct  720
 74 ggttccatta tggtacattg tacaggtgca aatcatgaag gtgtacccca atgaactaac  780
 76 tgtgatcttc ttttacaatt tatgtgtaag catcatggct gcaattgtag ctatatttac  840
 78 agagacaaat gcaggagctt ggaaaatagg actagataca gcattggctt caatagtttg  900
 80 ctctggaatt tttggttcat ttgtgaacaa cgcagttcac acatgggtac tacgtataaa  960
 82 gggtcctgtc tatgtggcaa tgttcaagcc actctcaatt gccatagctg ttgccttggg 1020
 84 agtcatgttc ctgggtgata cactccacct tggaagtcta gtgggagcca cagtaatatc 1080
 86 gatcggattt tatacagtaa tgtggggaaa agcaaccgaa gagaatgtgg acgaagatgt 1140
 88 ccctggccag caatcaccac caaccacaga gaatgttcct ctcttgcaaa gctataaaac 1200
 90 tgatacagct gaaaagaaaa tgcatggaag tgtataaatg acaaacaaaa ctgttgataa 1260
 92 atcttaacat tattgaaatt acacgaatag caaagcaaat acatggtttt gttttcgccc 1320
 94 aagctaaccc tgtaacgcca atagcaatta gcaaagtagg tacccacgcc tttagagtgt 1380
 96 agaggacatc atatgtaaga aatagttcaa gggttcaact gatctccttt cgccaaggaa 1440
 98 cataaacgaa tctttataca aattagggag caacctatct acaagtttgt gtacgaacac 1500
100 tcacagatga aaacggagca acttcgttat ctgtcttccc ttttcctgtc tcttgtaaca 1560
102 agtcatccat attatgattt atagaagctg cgtgattctt taacattaaa aatattatga 1620
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106 <211> LENGTH: 582
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108 <213> ORGANISM: Glycine max
110 <220> FEATURE:
111 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101219C.1
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117 aataatcaaa acaattggtt gggtttctca ctctctcctc aaatgcataa tataggagtt  120
119 tcttcacact cacaaccttc ctctgctgct gaagtggttc ctacaagctt ttaccaccac  180
121 actgctccac ttagtagcta tggtttctac tatggacttg aagctgaaaa tgttggattg  240
123 tattcagctt tgccaatcat gcccctcaaa tctgatggct ctctctatgg attggaaact  300
125 ttaagcaggt cacaagcaca agcaatggct actacttcaa caccaaaact ggagaacttc  360
127 ttaggtgggg aagccatggg gacccctcat cactacgaat gtagtgccac agaaacaatg  420
129 cctctgagct tagacagtgt tttttacatc caaccctcac gccgtgaccc aaataataac  480
131 caaacctacc aaaaccatgt tcaacacatt agcaccaacc aacaacaaca acagcaagag  540
133 cttcaagcat attactctac cttgagaaac catgatatga ta                     582
136 <210> SEQ ID NO: 4
137 <211> LENGTH: 228
138 <212> TYPE: DNA
139 <213> ORGANISM: Glycine max
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101254C.1
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148 gagttcgtgt acatggcgaa gctggcggag caggccgagc gctacgagga gatggtggag  120
150 ttcatggaga aggactacgc ctacgcctag agctaggagc tgaccgtgga agagcgcatc  180
152 ctcctctgcg taaactactt gaacgccttc agggctcgta gcgccttc                228
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156 <211> LENGTH: 608
157 <212> TYPE: DNA
158 <213> ORGANISM: Glycine max
160 <220> FEATURE:
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PATENT APPLICATION: US/10/612,783A   TIME: 10:19:13

Input Set : **D:\pa_00591.rpt**
Output Set: **N:\CRF4\09132004\J612783A.raw**

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169 aggcacagga aggttcttcg tgacaacatc cagggcatca cgaaacctgc gattcgtagg  180
171 ttagcgagaa gaggtggcgt gaagagaacc agtggtttga tctacgagga aaccaaagga  240
173 gttctgaaga tattcttgaa gaacgtgatt cccgatgctg tgacctacac tgagcacgct  300
175 aggaggaaac ctgttactgc tatggatgtc gtttatgctc ccaaaagaca gggaaggacc  360
177 ctctatggct ttggaggcta aagaatagaa tctttaggtt taatgactgt gttgcaggat  420
179 aaaacattgg ttcttttgaa tttgcgtgaa gtttagttta ggttttggtt tgttctgtaa  480
181 catacgaagc tatgtttgct cagaaaatgt aaaacttcaa ttgaacccta aatgaaggag  540
183 tgttgttttc gtggccccaa aaaaaaaaaa aaaaaaaaaa aaaaaagcg gccgctctag  600
185 aggatcca                                                          608
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190 <212> TYPE: DNA
191 <213> ORGANISM: Glycine max
193 <220> FEATURE:
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202 atgtggaatt caaaccaaaa tcccaaatcc tcaaattcga ttcgtaccaa attttcttca  180
204 caaaatgtct ggtcgtggaa aaggtggcaa gggtttggga aagggaggtg ccaagaggca  240
206 cagaaaggtt cttcgtgaca acattcaagg tatcacgaaa cctgcgattc gtaggttagc  300
208 gagaagaggt ggcgtgaaga ggatcagtgg tttgatctac gaggaaacca gaggagttct  360
210 gaagatattc ttggagaacg tgattcgcga tgctgtgacc tacaccgagc acgctaggag  420
212 gaagacggtg actgccatgg atgtggttta tgctctcaag aggcagggaa ggaccctcta  480
214 tggtttcgga ggctgaatgg attgattctt agtattatta aattatgttg caggatataa  540
216 tattatgcct gttcttctga aattcggtgt gatgtttagt ttagattcgt tctgtaacat  600
218 atgaatcttc aaaggttctg ttcggcacag aaaatgtact actttaattg aaattaaaat  660
220 gaaggagcag cgttttcgtg gtgccttata catttttttc cacggttatg aagatttttt  720
222 cgctgtggtt cttaggttat tgcattgtgt ggattaattt gggggtaatc gaaaactgtg  780
224 tttaggttct gtttttaatg tagtttttga ttgtaaagga gtgatatgtt acgcattaag  840
226 taactgacaa attttcaatt ggaaatgcta ggatattagt tggaattgt             889
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231 <212> TYPE: DNA
232 <213> ORGANISM: Glycine max
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236 <222> LOCATION: (1)..(645)
237 <223> OTHER INFORMATION: unsure at all n locations
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248 cgccaagagg cacaggaaag ttcttcgcga taacattcag ggtatcacga aacctgcgtt  180
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PATENT APPLICATION: US/10/612,783A   TIME: 10:19:13

Input Set : **D:\pa_00591.rpt**
Output Set: **N:\CRF4\09132004\J612783A.raw**

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254 gcacgctagg aggaagacgg tgactgccat ggatgtggtt tatgcgctca agaggcaggg  360
256 aaggaccctc tacggttttg gaggctaaag aatttaaccc ttcttttctg ggttgcagga  420
258 taagacattg gttctttga atttgcgtgg tgttttagtt taggtttgtt atgtatcata  480
260 cgaatctctg gtttgcatag aaaatatttc atttgaaatt taaatggagt atcgtttctg  540
262 ttaggcatat tatttcggct aaattagttt ttttttcttc tattctattt tattatttag  600
264 gtgtaatttg ttttttttta tgttttgaga ttcaaatgat gattt  645
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268 <211> LENGTH: 667
269 <212> TYPE: DNA
270 <213> ORGANISM: Glycine max
272 <220> FEATURE:
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275 <400> SEQUENCE: 8
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281 tcaggccgtg gaaaggtgg gaagggtttg ggaaagggag gagctaagag gcacagaaag  180
283 gttcttcgtg acaacattca aggaatcacg aaacctgcga ttcgtaggtt agcgagaaga  240
285 ggtggcgtga agaggatcag tggtttgatt tacgaggaaa ccagaggagt tctgaagata  300
287 ttcttggaga acgtgattcg cgatgctgta acctacactg agcacgctag gaggaaaact  360
289 gttactgcta tggatgtcgt ttatgctctc aagagacagg gaaggaccct ctatggcttt  420
291 ggaggctaaa gaatagaatc tttaggttta atgactgtgt tgcaggataa aacattggtt  480
293 cttttgaatt tgcgtgaagt ttagtttagg ttttggtttg ttctgtaaca tacgaagcta  540
295 tgtttgctca gaaaatgtaa aacttcaatt gaaatctaaa tgaaggagtg ttgttttcgt  600
297 ggcgcatatt ttctcacgat gatttgttct attcattgtt aatatgtcgt caaggttttt  660
299 gcatttg  667
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310 <223> OTHER INFORMATION: unsure at all n locations
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321 gtggaaaggg tggaaagggt ttgggaaagg gaggtgccaa gaggcacagg aaggttcttc  180
323 gcgacaacat tcaggcatt acgaaacctg cgattcgtag gttagcgaga agaggtggcg  240
325 tgaagaggat cagtggtttg atctacgagg aaaccagagg ggttctgaag atattcttgg  300
327 agaacgtgat tcgcgatgct gtgacttata ccgagcacgc taggaggaag acggttactg  360
329 ccatggatgt tgtttatgct ctcaagagac agggaaggac cctctatggc tttggaggct  420
331 aaagagttgt ttttcttgtt gtcccatgtg ctcattttct tggatgctga agatgtttag  480
333 gttcattttg taacatagga tgcttgttca gtttaatttt ggatgtaaaa tgttgaacta  540
335 tgattgaaat tatatggact aatttttgt tggtggaagt atagcttgga atggcctcac  600
337 attgtttgtt tgatattagg aaaatattgc agtgaattat gaaatgtttt gacatggaaa  660
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Input Set : D:\pa_00591.rpt
Output Set: N:\CRF4\09132004\J612783A.raw

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      343 attgggtggt ttcatgtgca ctaatacttc tggtgtcatg cacaacatac tcatcagctt  840
W--> 345 ctttggggaa acctgagaac aacatanaaa catctgtttt taaatcaccc aagattgagc  900
      347 taggtccagg gttagtttca acaaatttta ttttgatgtt gactttccaa gaggccatat  960
      349 tgcactcaag agtttcaatg ctgaattggg tgatga                             996
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      366 tgtctggtcg tggaaagggt ggcaagggtt tgggaaaggg aggtgccaag aggcacagga  180
      368 aggttctgcg cgataacatt caaggaatca cgaaacctgc gattcgtagg ttagcgagaa  240
      370 gaggtggcgt gaaaaggatc agtggtttga tctacgagga aaccagagga gttctgaaga  300
      372 tattcttgga gaacgtgatt cgtgatgctg tgacctacac tgagcacgct aggaggaaga  360
      374 cagtgactgc tatggacgtg gtttatgctc ttaagaggca gggaaggacc ctctacggtt  420
      376 ttggaggctg aacaattctt tttttggctg tgctcctatg tgcttgttct cttggatgct  480
      378 ggtgatgttt aggttcatcc tgtaacatag gcttattcag ctctagatgt aaaacgttga  540
      380 accgtaattg gaattatatg aattagtact tttttgttgg tggc                    584
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      384 <211> LENGTH: 621
      385 <212> TYPE: DNA
      386 <213> ORGANISM: Glycine max
      388 <220> FEATURE:
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      395 aaaatgtctg gtcgtgggaa aggtggcaag ggtttgggaa agggaggtgc caagaggcac  120
      397 agaaaagttc ttcgtgataa cattcaaggt atcacgaaac ctgcgattcg taggttagcg  180
      399 agaagaggtg gcgtgaagag gatcagtggt ttgatctatg aggaaaccag aggagttctg  240
      401 aagattttct tggagaacgt gattcgagat gctgtgacct acactgagca cgctaggagg  300
      403 aagacggtga ctgccatgga tgtggtttat gcgctcaaga ggcagggaag gaccctctat  360
      405 ggtttcggag gctgaatgat tgattcttag tattattaaa ttatgttgca ggatataata  420
      407 ttatgcctgt tcttctgaaa ttcggtgtga tgtttagttt aaattcgttc tgtaacatat  480
      409 gaatctttaa aggttctgtt cggacagaaa atgtactact ttaattgaaa ttaaaatgaa  540
      411 ggagcagcgt tttcgtggtg cattttatag cttaagcttt ttttctctta tgaaattgaa  600
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      419 <213> ORGANISM: Glycine max
      421 <220> FEATURE:
      422 <223> OTHER INFORMATION: Clone ID: PAT_MRT3847_101916C.1
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 09/13/2004
PATENT APPLICATION: US/10/612,783A   TIME: 10:19:14

Input Set : D:\pa_00591.rpt
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<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 11
Seq#:9; N Pos. 867
Seq#:13; N Pos. 1096
Seq#:40; N Pos. 2,44,55,57,76,86,97
Seq#:41; N Pos. 21,22,26,28,30,31,32,33,38,39
Seq#:47; N Pos. 12,21,37,40,51,53,59,61,89,100,130,174,179,213,292,294,305
Seq#:49; N Pos. 2,11,17,19,27,31,59,64,71,101,102,125,131,132,145,147,220
Seq#:49; N Pos. 224,230,234,240,243,272,279
Seq#:51; N Pos. 3,51,54,61,91,274
Seq#:59; N Pos. 814
Seq#:65; N Pos. 385,464
Seq#:69; N Pos. 13,24,52,65,66,72,73,80,88,102,112,116,129,130
Seq#:71; N Pos. 20,41,55,57,83,102,138,142,144,163
Seq#:73; N Pos. 5,7,21,33,34,36,40,41,42,56,61,88,103,115,117,119,125,128
Seq#:73; N Pos. 169,178,195,197,210,226,227,228,229,234,241
Seq#:78; N Pos. 1486
Seq#:90; N Pos. 1
Seq#:91; N Pos. 2113,2114,2120,2126,2127
Seq#:103; N Pos. 69,76,82,84,87,89,97,115,123,124,136,140,153,162,171,193
Seq#:103; N Pos. 208,214,222,233,239,249,253
Seq#:107; N Pos. 2114,2115,2116,2118
Seq#:112; N Pos. 7,9,32,41,46,72,86,90,99,135,138,169,171,172,174,177,185
Seq#:112; N Pos. 195,197,198,206,209,210,219,244,262
Seq#:119; N Pos. 305,505
Seq#:157; N Pos. 30
Seq#:159; N Pos. 565
Seq#:167; N Pos. 32
Seq#:170; N Pos. 32
Seq#:171; N Pos. 401
Seq#:182; N Pos. 391,432,433
Seq#:188; N Pos. 456
Seq#:199; N Pos. 12,21,24,53,71,188,260,263
Seq#:210; N Pos. 10,22,25
Seq#:222; N Pos. 410
Seq#:235; N Pos. 482,494
Seq#:242; N Pos. 694,695,712,713,714,715,723,724,725,726,727,731,737,738
Seq#:242; N Pos. 763,764,765,766,769,786,787,788
Seq#:244; N Pos. 40,41,86,93
Seq#:265; N Pos. 4
Seq#:287; N Pos. 583
Seq#:297; N Pos. 1769
Seq#:298; N Pos. 13,49,57,58,81,98,101,104,117
Seq#:299; N Pos. 1449,1451
Seq#:312; N Pos. 88

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/612,783A**

DATE: 09/13/2004
TIME: 10:19:14

Input Set : **D:\pa_00591.rpt**
Output Set: **N:\CRF4\09132004\J612783A.raw**

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:244 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:840
L:486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1080
L:2074 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:2076 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:60
L:2096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:2365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:60
L:2369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:120
L:2371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:180
L:2373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:240
L:2375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:300
L:2450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:2452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:60
L:2454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:120
L:2456 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:180
L:2458 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:240
L:2499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:2501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:60
L:2507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:240
L:2954 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:780
L:3121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:360
L:3123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:420
L:3296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
L:3298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:60
L:3300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:120
L:3343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
L:3345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:60
L:3347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:120
L:3388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:0
L:3390 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:60
L:3392 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:120
L:3394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:180
L:3396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:240
L:3628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:1440
L:4163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
L:4285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:2100
L:4962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:60
L:4964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:120
L:4966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:180
L:4968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:240
L:5205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:2100
L:5357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:5359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:60
L:5361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:120
L:5363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:180
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